

Title (en)

FACILITATING HITLESS SECURITY KEY ROLLOVER USING DATA PLANE FEEDBACK

Title (de)

ERLEICHTERTES ÜBERROLLEN EINES SICHERHEITSSCHLÜSSELS UNTER VERWENDUNG VON DATENEbenen-FEEDBACK

Title (fr)

FACILITATION DU RENOUVELLEMENT DE CLÉ DE SÉCURITÉ SANS À-COUPS UTILISANT UNE RÉTROACTION DE PLAN DE DONNÉES

Publication

EP 3907961 A1 20211110 (EN)

Application

EP 20190620 A 20200812

Priority

- IN 202041019240 A 20200506
- US 202016907685 A 20200622

Abstract (en)

A first network device may install a receiving key for decrypting traffic on protocol hardware associated with a data plane of the first network device. The first network device may receive, from the data plane, a first notification indicating that the receiving key is installed on the protocol hardware and may provide, to a second network device, a first message identifying the receiving key. The first network device may receive, from the second network device, an acknowledgment message indicating that the receiving key is installed on the second network device and may install a transmission key for encrypting traffic on the protocol hardware. The first network device may receive, from the data plane, a second notification indicating that the transmission key is installed on the protocol hardware and may provide, to the second network device, a second message identifying the transmission key.

IPC 8 full level

H04L 29/06 (2006.01); **H04L 9/08** (2006.01)

CPC (source: CN EP US)

H04L 9/0827 (2013.01 - US); **H04L 9/0838** (2013.01 - CN); **H04L 9/0847** (2013.01 - US); **H04L 9/0897** (2013.01 - US);
H04L 63/062 (2013.01 - EP); **H04L 63/068** (2013.01 - EP); **H04L 63/162** (2013.01 - CN)

Citation (search report)

- [IY] CN 111049648 A 20200421 - HANGZHOU ECI COMMUNICATION CO LTD & CN 111049648 K1
- [Y] US 9882714 B1 20180130 - CIGNETTI TODD L [US], et al
- [A] WO 2014008923 A1 20140116 - ABB RESEARCH LTD [CH], et al
- [A] EP 2763442 A1 20140806 - INTEL CORP [US]

Cited by

EP4277204A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3907961 A1 20211110; **EP 3907961 B1 20230628**; CN 113630242 A 20211109; EP 4243337 A2 20230913; EP 4243337 A3 20231025;
US 11626981 B2 20230411; US 2022094534 A1 20220324

DOCDB simple family (application)

EP 20190620 A 20200812; CN 202010803683 A 20200811; EP 23181807 A 20200812; US 202117457951 A 20211207